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Working Toward A Better Environment -- Some Career Choices

U.S. Department of Health, Education, and Welfare

Public Health Service

Environmental Health Service

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Polluted air and water, despoiled land, crowded slums, suburban sprawl, traffic jams, and noise are direct and unwelcome results of technological progress, population growth, and a rising standard of living. There is danger of destroying the environment, of misusing limited resources of materials and energy, and perhaps even making man's survival on earth impossible. What can one do to help solve such problems and improve the environment? This question is being asked by thousands of young people who are in the process of choosing a career. The report contains some job suggestions.

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WORKING TOWARD A BETTER ENVIRONMENT - SOME CAREER CHOICES

Polluted air and water, despoiled land, crowded slums, suburban sprawl, traffic jams, and noise are direct and unwelcome results of technological progress, population growth, and a rising standard of living. Our consumption of goods and services is increasing so rapidly that we are in danger of destroying the environment in which we live, of misusing our limited resources of materials and energy, and perhaps even making man's survival on earth impossible.

So rapidly is our environment being changed that in some aspects our problems are near the crisis stage. Oil spills from ships or offshore wells ruin beautiful beaches and kill birds and fish. Polluted air in many cities sharply increases disease and death rates. Unsightly dumps blight our landscape. Pesticides and other toxic substances enter the plant and animal food chain and poison our food. Wastes, ranging from household detergents to industrial chemicals, help turn clear lakes and rivers into scummy swamps choked with algae.

"What can I do to help solve such problems and improve our environment?"

This question is being asked by thousands of young people who are in the process of choosing a career. How can I earn a living and help make the world a better place to live in? What education do I need? Where can I get it?

The Range of Choices

Since virtually every human activity affects the environment, so almost every type of work can be oriented to environmental improvement, directly or indirectly. The range is enormous and covers all levels of skill and training.

Some may choose a career directly concerned with environmental management: pollution control work, for instance. But this is not the only setting in which important contributions can be made. The world needs workers in every business and professional field whose basic skills are enhanced by an understanding of ecological relationships and a dedication to environmental improvement.

The checklist of career fields (Table 1) is not complete, but it shows the principal professions needed to increase our knowledge of environmental problems and to extend and improve methods of environmental control.

The list is divided into four basic categories. The division is arbitrary; many of the fields might logically be placed in a different category.

Table I. Checklist of Environmental Related Career Fields

BASIC SCIENCES	
Physics	
Chemistry	
Geology	
Biology	(Botany, Zoology, Entomology, etc.)
Ecology	(A relatively new basic science, concerned with living things in relation to their physical environment and to other life forms)
Meteorology	(Study of air, weather)
Oceanography	(Study of oceans, currents, ocean life)
Limnology	(Study of lakes)
APPLIED SCIENCES	
Mechanical Engineering	(Power, machinery, mechanical processes)
Chemical Engineering	(All chemical processing)
Civil Engineering	(Public works, roads, tunnels, structures. The design of water systems, waste water treatment systems, and solid waste disposal systems requires civil engineering skills)
Architecture	
Landscape Architecture	
Agronomy	(Agricultural science)
Statistics	(This belongs in all four categories, since statistical principles govern the design of all experiments and the gathering and interpretation of all data)

Table I. Checklist of Environmental Related Career Fields (continued)

HEALTH SERVICES	
Preventive Medicine	
Bacteriology	(Key field in water pollution control)
Epidemiology	(The transmission and spread of disease)
Toxicology	(Study of poisons and their effects)
SOCIAL SCIENCES AND SERVICE	
Sociology	(Study of human societies, communities)
Economics	
Law	(Environmental law is a new and growing specialty for lawyers)
Social work	
Urban planning	
Soil conservation	
Forestry	
Recreation	(Park operation, planning, and management)
Education	(Teaching of environmental subjects)
Writing, publicity	(For newspapers, magazines, radio and television programs on environmental questions)

These career fields require men and women professionally trained, usually at the graduate level, with master's or doctor's degrees. Almost all of them also require assistants whose jobs, though challenging and interesting, do not require so much academic training. Such "paraprofessionals" include laboratory or instrument technicians, repair and maintenance people, computer specialists, and skilled operators of complicated equipment. Some may get their training in junior and community colleges; others in post-high-school technical institutes, through part-time or evening study, or on the job in a kind of informal apprenticeship.

The need for such skilled workers is increasing, especially in environmentally related scientific and technical work.

Planning Your Career

Your own interests, abilities, and personality will help you narrow your career choice. Some of the questions you should ask are:

Do you like to work with people or things?

Are you interested mainly in theory, knowledge, and ideas; or in practice and application?

Do you like detail and specifics, i.e., specializing, or do many different things interest you, things you want to relate, combine, and synthesize?

You would be wise to supplement your own hunches by taking advantage of professional guidance services offered through your school counselor, or public or private job placement and counseling programs. All sorts of tests are available which can help you get a fix on your aptitudes for various types of work.

Friends or acquaintances who are studying or working in a field that seems attractive to you can provide helpful information. Libraries and book stores have occupational guides and catalogs describing courses offered in vocational and technical schools, colleges and universities. Don't overlook any source of competent advice.

Your career choice will be dictated, in large part, by your aptitudes and interests. However, you may also want to consider the length of training required and how much time and money you can spend before you must start earning a living in your chosen field. Here are some examples:

Career	Institution	Years of Training Beyond High School
Incinerator operator	On the job	3-6 months
Sanitary landfill operator	On the job	3-6 months
Laboratory aide	Tech./Voc. Sch.	1-2 years
Water treatment plant operator	Tech./Voc. Sch. or College	1-2 years

Career	Institution	Years of Training Before High School
Technician (laboratory, medical, chemical)	Tech./Voc. Sch.	2-3 years (range of skills depending on work)
Electronic technician	Tech./Voc. Sch. or College	2-3 years
Civil engineer	College	4 years
Sanitarian professional (public health worker)	College	4-5 years
High school teacher	College, University	4-5 years
Environmental engineer	College, University	4-6 years
College teacher	College, University	5-7 years
Research biologist, ecologist	College, University	7-8 years
Public health physician	College, University	10 years

Environmental Courses and Curricula

Universities and colleges throughout the country have reacted to the wide interest in environmental studies by adding courses in such fields as ecology, marine sciences, urban problems, urban planning, population, and so on. Special courses are being offered in air and water pollution control, solid waste management, waste product reclamation, and similar subjects.

In addition, many community colleges and vocational institutes have started training programs directly concerned with environmental work. These courses are variously called environmental science, water and waste water technology, air pollution technology, solid waste technology, radiation technology, and so on.

Environmental Employers

Where might you expect to work in your environmental career, and who could be your employer?

Errata: Page 5. "Years of Training Before High School", top right, should read "Years of Training Beyond High School."

Environmentalists are found in laboratories, in universities, in factories and power plants, in water works and sewage treatment plants, and state and local government offices. Others are on the road, sampling, measuring, and collecting data, and selling and servicing equipment. A small number may do their work in remote and exotic locations; on ships at sea, in diving gear on the seabed, or in high flying aircraft.

Local governments need workers in waste collection and disposal, in water and sewerage systems, in air pollution enforcement, city planning, milk and food protection, sanitation programs, and similar fields concerned with the local environment.

State and regional governmental bodies need workers in the same fields, with more emphasis, perhaps, on planning and surveillance than on operations.

The Federal Government is likewise increasing its environmental responsibilities. Much of the Federal effort goes into the funding of basic and applied research and in developing and demonstrating new techniques of pollution control. The employment which these funds support is primarily non governmental, in universities, industrial laboratories, and other institutions for research and development.

Private industries—manufacturing, mining, power generation, petrochemicals, and other types—should provide increasing job opportunities for pollution control specialists. Moreover, the development and the marketing of air and water cleaning equipment, processes to reduce pollution, and systems for the reclamation of useful materials from waste is a growing field. The emphasis on environmental quality provides a chalienge to the designer of products and packaging to meet the need for safety and disposability.

Educational and research institutions constitute a third large category of environmental employer. Teachers of environmental subjects are needed at the college and graduate school levels. Awareness of environmental problems is increasingly affecting the subject matter taught in primary and secondary schools. Environmental quality is a concept that is relevant and enriching at even the kindergarten level.

Research institutions and laboratories, whether connected to universities or independent, need scientists and engineers in many of the fields listed in Table I.

Environmental careers are wide open and expanding. They offer a wide range of career choices that can be satisfying to you and beneficial to society—careers which contribute in direct and tangible ways to the betterment of the world in which we live.

JUNIOR COLLEGES

Listed here are junior colleges and other institutions offering courses in environmental technology.

CALIFORNIA

Contra Costa College
Attn: John Wilson
San Pablo, California 94806
Sanitation and Water Technology

San Diego Junior Colleges
Office of Vocational Education
Attn: Hal Reed
San Diego, California 92101
Water & Wastewater Technology
(night courses)

COLORADO

Community College of Denver
Attn: Joe Ellis Zaiz
Denver, Colorado 80216
Environmental Control Technology

FLORIDA

Central Florida Junior College
Ocala, Florida 32670
Radiological Health Technology

Miami Dade Junior College
Attn: A. H. Davidson
Miami, Florida 33167
Environmental Engineering
Technology
(planned)

Santa Fe Junior College
Attn: John Turner
Gainesville, Florida 32601
Air Pollution Technology

St. Johns River Junior College
Attn: William Buck, Jr.
Palatka, Florida 32077
Civil Engineering Technology

St. Petersburg Junior College
Attn: Marvin Moore

FLORIDA (continued)

Pinellas Park, Florida 33565
Environmental Technology
(planned)

GEORGIA

Atlanta Area Vocational Technical
Schools
Attn: R. A. Ferguson
Atlanta, Georgia 30310
Sanitary Engineering Technology

ILLINOIS

Chicago City College Southwest
Attn: Walter Komas
Chicago, Illinois 60617
Environmental Control Technology

College of DuPage
Attn: Ruth Nechoda
Glen Ellyn, Illinois 60137
Environmental Health Technology

Waubonsee Community College
Attn: Lee Thompson
Sugar Grove, Illinois 60554
Water & Wastewater Technology

INDIANA

Purdue University
School of Technology
Attn: Harvey Wilke
West Lafayette, Indiana 47907
Pollution Control Technology
(planned)

IOWA

Kirkwood Community College
Attn: Harold Kort
Cedar Rapids, Iowa 52406

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KENTUCKY

Eastern Kentucky State College
Richmond, Kentucky 40475
Environmental Technology

MAINE

Southern Maine Vocational-Technical Institute
Attn: A. A. Baker
South Portland, Maine 04106
Wastewater Technology

MARYLAND

Baltimore Institute & Junior College
Attn: Robert Kirkley
Baltimore, Maryland 21201
Environmental Technology
(planned)

Charles County Community College
Attn: Carl Schwing
La Plata, Maryland 20646
Pollution Abatement Technology

Montgomery Junior College
Takoma Park, Maryland
Radiation Science

MASSACHUSETTS

Berkshire Community College
Attn: Gwen Lawson
Pittsfield, Massachusetts 01202
Environmental Technology

Bristol Community College
Attn: Anthony Caramello
Fall River, Massachusetts 02720
Environmental Technology
(planned)

Greenfield Community College
Attn: Peter C. Steve
Greenfield, Massachusetts 01301
Environmental Technology

Holyoke Community College
Attn: Edith Reinisch

MASSACHUSETTS (continued)

Holyoke, Massachusetts 01041
Environmental Technology
(planned)

New England Insititute
Attn: Joseph Goldfarb, M.D.
Boston, Massachusetts 02215
Environmental Technology
(planned)

North Shore Community College
Attn: Tracy Flagg
Beverly, Massachusetts 01915
Public Environmental Health Technology

Quinsigamond Community College
Attn: Samuel Albert
Worcester, Massachusetts 01605
Public Environmental Health Technology

Springfield Community College
Attn: Donald Newton
Springfield, Massachusetts 01101
Environmental Technology

MICHIGAN

Bay de Noc Community College
Attn: Ken Maki
Escanaba, Michigan 49829
Water & Wastewater Technology

Ferris State College
Attn: Jack Fleming
Big Rapids, Michigan 49307
Environmental Sanitarian Assistant

Henry Ford Community College
Attn: Miss Eleanor Tourtillott
Dearborn, Michigan 48128
Environmental Technology
(planned)

Lansing Community College
Attn: Ed Bergmann
Lansing, Michigan 48914
Sanitary Engineering Technology

Monroe County Community College
Attn: Jack MacDonald
Monroe, Michigan 48161
Environmental Control Technology

MISSOURI

Meramec Community College
Attn: David Campbell
St. Louis, Missouri 63122
Pollution Control Technology

NEW YORK

Alfred Agricultural and Technical College
Attn: Maynard Boyce
Alfred, New York 14802
Environmental Technology
(planned)

Broome Technical Community College
Attn: David Newton
Binghamton, New York 13902
Environmental Health Technology

Community College of the Finger Lakes
Attn: William Banaszewski
Canadaigua, New York 14424
Environmental Technology
(planned)

Corning Community College
Attn: Joseph Vikin
Corning, New York 14830
Environmental Technology
(planned)

Delhi Agricultural & Technical School
Attn: Darrell Singer
Delhi, New York 13753
Environmental Technology
(planned)

Erie Community College
Attn: Charles Ritter
Buffalo, New York 14221
Environmental Technology
(planned)

Hudson Valley Community College
Attn: Fred Zipprich
Troy, New York 12180
Environmental Health Technology

NEW YORK (continued)

Niagara Community College
Attn: Paul Kwitowski
Niagara Falls, New York 14303
Environmental Technology
(planned)

Monroe Community College
Attn: Walter Scheible
Rochester, New York 14607
Environmental Technology
(planned)

Staten Island Community College
Attn: Norma B. Chernok
Staten Island, New York 10301
Environmental Technology

Suffolk County Community College
Attn: Dr. Albert Ammerman
Seldon, New York 11784
Environmental Technology
(planned)

Sullivan County Community College
Attn: David Wahzstrom
South Fallsburg, New York 12779
Environmental Technology
(planned)

SUNY, Agricultural & Technical College
Attn: Roland Hale
Alfred, New York 14802
Air Pollution Technology

SUNY, Agricultural & Technical College
Attn: Walter Flanders
Morrisville, New York 13403
Water & Wastewater Technology

NORTH CAROLINA

Fayetteville Technical Institute
Attn: Dean Painter
Fayettesville, North Carolina 28303
Environmental Engineering Technology

OHIO

Community and Technical College
University of Toledo
Attn: Joe Kegy

OHIO (continued)

Toledo, Ohio 43606
Water & Wastewater Technology

Muskingum Area Technical Institute
Attn: Sheldon Sproull
Zanesville, Ohio 43701
Water Pollution Control Technology

Penta Technical College
Perrysburg, Ohio 43551
Environmental Technology

OKLAHOMA

Oklahoma State University,
Technical Institute
Stillwater, Oklahoma 74074
Radiological Health Technology

OREGON

Clackamas Community College
Attn: Deryl Hampton
Oregon City, Oregon 97045
Water Sanitation Technology

Linn Benton Community College
Attn: Charles Zickafoose
Albany, Oregon 97601
Water & Wastewater Technology

Oregon Technical Institute
Attn: Roy Fisk
Klamath Falls, Oregon 97601
Water & Wastewater Technology

PENNSYLVANIA

Murrell Dobbins Technical
School
Philadelphia, Pennsylvania 19105
Radiological Health Technology

SOUTH CAROLINA

Greenville Technical Education
Center
Attn: John H. Paxton
Greenville, South Carolina 29606
Environmental Science Technology

Sumter Area Technical Education
Center
Attn: Val Green
Sumter, South Carolina 29150
Environmental Health Engineering
Technology

TEXAS

Tarrant County Junior College
District
Fort Worth, Texas 76102
Water & Wastewater Technology

Texas State Technical Institute
James Connally Campus
Attn: Ken Bird
Waco, Texas 76703
Water & Wastewater Technology

VIRGINIA

Wytheville Community College
Attn: John Philippe
Wytheville, Virginia 24382
Environmental Technology

WASHINGTON

Shoreline Community College
Attn: John Serwold
Seattle, Washington 98133
Pollution Control Technology

WISCONSIN

Milwaukee Technical College
Milwaukee, Wisconsin 53202
Environmental Health Technology

UNDERGRADUATE PROGRAMS

Listed here are some of the many colleges and universities offering courses and undergraduate degrees in fields relating to the environment.

More information can be obtained by writing to these schools and to others which are not listed.

ALABAMA

University of Alabama
Marine Sciences Institute
Box 667
Bayou La Batre, 36509

Troy State College
Troy, 36081

Tuskegee Institute 36088

ALASKA

University of Alaska
Institute of Arctic Biology
College, 99701

ARIZONA

University of Arizona
Tucson, 85721

ARKANSAS

Little Rock University
33rd Street & University Avenue
Little Rock, 72204

University of Arkansas
Fayetteville, 72701

CALIFORNIA

California Institute of Technology
1201 East California Boulevard
Pasadena, 91109

California State Polytechnic College
Kellogg-Voorhis
3801 West Temple Avenue
Pomona, 91766

San Luis Obispo, 93401

CALIFORNIA (continued)

University of California

Davis, 95616
Institute of Ecology

Irvine, 92664

Riverside, 92502
International Centre for Biological Control
Environmental Science Training Program

San Diego
Institute of Marine Resources
P.O. Box 109
La Jolla, 92037

Santa Barbara
Marine Sciences Institute
Department of Biology
Santa Barbara, 93106

Berkeley
Department of Forestry
Berkeley, 94720

Los Angeles
Institute of Evolutionary and Environmental Biology
Department of Botany
Los Angeles, 90024

Scripps Institution of Oceanography
San Diego, 92101

University of Southern California
Institute of Urban Ecology
Los Angeles, 90007

California State College

CALIFORNIA (continued)

Long Beach
Institute for Marine Studies
6101 East Seventh Street
Long Beach, 90801

Los Angeles
5151 State College Drive
Los Angeles, 90032

Sacramento
6000 J Street
Sacramento, 95819

San Diego
5402 College Avenue
San Diego, 92115

San Jose
Department of Economics
(Urban Planning)
Institute for Urban
Environmental Studies
School of Natural Sciences
and Mathematics
Moss Landing Marine
Laboratories
San Jose, 95114

Humboldt State College
Arcata, 95521

San Fernando Valley
State College
Northridge, 91324

Stanford University
Department of Biological
Sciences
Palo Alto, 94304

COLORADO

University of Colorado
Institute of Arctic and
Alpine Research
Institute for Environmental
Studies
Thorne Ecological Foundation
Boulder, 80302

Colorado State University
Ecology Institute,
Department of Zoology
Fort Collins, 80521

CONNECTICUT

Connecticut College
Department of Botany
New London, 06320

University of Connecticut
Marine Research Laboratory
Biological Sciences Group
Storrs, 06268

Yale University
New Haven, 06520

DISTRICT OF COLUMBIA

Georgetown University
Department of Biology
Washington, D.C. 20007

The George Washington
University
Department of Biology
Washington, D.C. 20006

Howard University
2400 6th Street, N.W.
Washington, D.C. 20001

FLORIDA

University of South Florida,
Bay Campus
Marine Sciences Centre
Bayboro Harbour
St. Petersburg, 33701

University of Jacksonville
Center for Estuarine Studies
Jacksonville, 32211

Florida State University
Tallahassee, 32306

University of Florida
Gainesville, 32601

University of Miami
Coral Gables, 33124

GEORGIA

University of Georgia
Institute of Ecology
Bioscience Building
Athens, 30601

Emory University
Atlanta, 30322

Georgia Institute of Technology
225 North Avenue, N W
Atlanta, 30332

HAWAII

University of Hawaii
Hawaii Institute of Marine Biology
Honolulu, 96822

ILLINOIS

Western Illinois University
Department of Biological Sciences
Macomb, 61455

University of Illinois
Environmental Science Program
Urbana, 61801

Southern Illinois University
Environmental Sciences Committee
Department of Zoology
Edwardsville, 62025

Carbondale, 62901

Illinois Institute of Technology
3300 South Federal Street
Chicago, 60616

Northwestern University
Evanston, 60201

INDIANA

Indiana University
Ecology, (Public Health Service Training Grant)

INDIANA (continued)

Department of Microbiology
Bloomington, 47401

Indiana State University
Life Sciences Department
Terre Haute, 47809

University of Notre Dame
Environics Program
Architecture Department
Notre Dame, 46556

Purdue University
Water Resources Research Centre
Department of Agronomy
Natural Resources Institute
Institute of Environmental Health
Department of Bionucleonics
Lafayette, 47907

IOWA

Iowa State University
Department of Botany and Plant Pathology
Ames, 50010

University of Iowa
Iowa City, 52240

KANSAS

Kansas State University
Manhattan, 66504

University of Kansas
Centre for Systematics and Population Biology
Department of Entomology
Lawrence, 66044

KENTUCKY

University of Kentucky
Lexington, 40506

Eastern Kentucky University
Lancaster Avenue
Richmond, 40475

LOUISIANA

Louisiana State University
Coastal Studies Institute
Baton Rouge, 70803

Tulane University
Center for Environmental
Sciences
New Orleans, 70118

McNeese State College
Lake Charles, 70601

Louisiana Polytechnic
Institute
Tech Station
Ruston, 71270

MAINE

University of Maine
Oceanographic Institute
Damariscotta, 04543

MARYLAND

Johns Hopkins University
School of Hygiene and
Public Health
615 North Wolfe Street
Baltimore, 21218

MASSACHUSETTS

Harvard University
The Centre for Environmental
and Behavioural Biology
Department of Biology
Cambridge, 02138

Williams College
Centre for Environmental
Studies
Williamstown, 01267

University of Massachusetts
Amherst, 01002

Massachusetts Institute of
Technology
77 Massachusetts Avenue
Cambridge, 02139

MASSACHUSETTS (continued)

Northeastern University
360 Huntington Avenue
Boston, 02115

Tufts University
Medford, 02155

MICHIGAN

University of Michigan
Interdepartmental Program
in Ecology
Museum of Zoology
Ann Arbor, 48104

Michigan State University
Office of the Vice President
for Research Development
Department of Botany and
Plant Pathology
East Lansing, 48823

Western Michigan University
C.C. Adams Centre
Department of Biology
Kalamazoo, 49001

Wayne State University
Detroit, 48202

Ferris State College
Big Rapids, 49307

MINNESOTA

University of Minnesota
Ecology and Behavioral
Biology Department
Museum of Natural History
Minneapolis, 55455

Bemidji State College
Environmental Studies
Bemidji, 56601

MISSISSIPPI

University of Mississippi
Department of Biology
University, 38677

MISSISSIPPI (continued)

University of Southern
Mississippi
Hardy Street
Hattiesburg, 39401

Mississippi Valley State
College
Itta Bena, 38941

Mississippi State University
State College, 39762

MISSOURI

University of Missouri
Columbia, 65201

Washington University
St. Louis, 63130

MONTANA

University of Montana
Montana Institute of
Environmental Biology
Department of Zoology
Missoula, 59801

Montana State University
Centre for Environmental
Studies
Bozeman, 59715

NEBRASKA

University of Nebraska, at
Lincoln
Institute for Environmental
Biology
College of Arts and Sciences
Lincoln, 68508

NEW HAMPSHIRE

Dartmouth College
Environmental Sciences
Faculty of Arts and
Sciences
Hanover, 03755

NEW HAMPSHIRE (continued)

University of New Hampshire
Office of Marine Science
and Technology
Durham, 03824

NEW JERSEY

Princeton University
Office of Population Research
Committee on Human Environment
School of Architecture
Princeton, 08540

Rutgers, The State University
Ecology Program
New Brunswick, 08903

NEW MEXICO

University of New Mexico
(interdepartmental program in
paleoecology)
Geology Department
Albuquerque, 87106

New Mexico State University
Las Cruces, 88001

NEW YORK

City College
Department of Biology
New York, 10031

Cornell University
Centre for Environmental
Quality Management
302 Hollister Hall
Ithaca, 14850

Rensselaer Polytechnic Institute
Lake George Research Group
Troy, 12181

University of Rochester
Department of Biology
Rochester, 14627

Vassar College
Environmental Studies Institute
Poughkeepsie, 12601

NEW YORK (continued)

Columbia University
Environmental Sciences and
Engineering Program
New York, 10027

New York University
New York, 10016

Union College
Department of Biology
Schenectady, 12308

Adelphi University
Garden City, 11530

Cooper Union
Cooper Square
New York, 10003

Manhattan College
Riverdale, Bronx
New York, 10471

NORTH CAROLINA

North Carolina State University
Department of Zoology
Water Resource Research
Institute
124 Riddick Building
Raleigh, 27607

University of North Carolina
Department of Zoology
Chapel Hill, 27514

Duke University
Durham, 27706

NORTH DAKOTA

University of North Dakota
Institute of Ecological
Studies
Grand Forks, 58201

North Dakota State
University
North Dakota Institute for
Regional Studies

NORTH DAKOTA (continued)

North Dakota Water Resources
Institute
Fargo, 58102

OHIO

Bowling Green State
University
Environmental Studies
Center
Bowling Green, 43402

Ohio State University
Columbus, 43210

University of Cincinnati
Clifton Avenue
Cincinnati, 45221

University of Toledo
2801 West Bancroft Street
Toledo, 43606

OKLAHOMA

Oklahoma State University
Stillwater, 74074

University of Oklahoma
Norman, 73069

OREGON

Oregon State University
Environmental Health Sciences
Center
Corvallis, 97331

Portland State College
P.O. Box 751
Portland, 97207

PENNSYLVANIA

Pennsylvania State University
Institute for Research on Land
and Water Resources
University Park, 16802

PENNSYLVANIA (continued)

University of Pennsylvania
Department of Landscape
Architecture
Philadelphia, 19104

Drexel Institute of Technology
32nd and Chestnut Streets
Philadelphia, 19104

Temple University
Philadelphia, 19122

University of Pittsburgh
Fifth and Bigelow Streets
Pittsburgh, 15213

Thomas Jefferson University
Philadelphia, 19107

PUERTO RICO

University of Puerto Rico
Institute of Marine Biology
Mayaguez, 00708

Puerto Rico Nuclear Centre
Rio Piedras, 00928

RHODE ISLAND

University of Rhode Island
Institute of Environmental
Biology
Kingston, 07881

TENNESSEE

University of Tennessee
Ecology Program
Committee on Ecology, Zoology
Department
Knoxville, 37916

Vanderbilt University
Sanitary and Water Resources
Engineering Department
Box 1670, Station B
Nashville, 37203

East Tennessee State University
Johnson City, 37601

TEXAS

University of Houston
Urban Affairs Centre
Houston, 77004

Texas Christian University
Environmental Studies Group
Forth Worth, 76129

Rice University
Environmental Science Program
Houston, 77001

North Texas State University
Department of Biology
Denton, 76203

University of Texas
Brackenridge Field Laboratory
Environmental Studies Program
School of Architecture
P.O. Box 7366
University Station
Austin, 78712

Texas A & M University
Natural Biosciences School
College of Agriculture
College Station, 77843

Texas Technological College
International Centre for Arid
and Semiarid Land Studies
Lubbock, 79409

UTAH

Brigham Young University
Centre for Environmental Biology
395 Brinhall Building
Department of Zoology
Provo, 84601

Utah State University
Ecology Centre
Logan, 84312

University of Utah
Salt Lake City, 84112

VERMONT

University of Vermont
Lake Champlain Studies Centre
Department of Zoology
Burlington, 05401

Middlebury College
Environmental Studies Program
Middlebury, 05753

VIRGINIA

Virginia Institute of Marine Science
Gloucester Point
(Affiliated with College of William and Mary
Williamsburg, 23185)

Virginia Polytechnic Institute
Blacksburg, 24061

Sweet Briar College
Center of Human Ecology
Sweet Briar, 24595

WASHINGTON

Washington State University
Program in Environmental Science
Pullman, 99163

Western Washington State College
Bellingham, 98225

WASHINGTON (continued)

University of Washington
Seattle, 98105

WEST VIRGINIA

West Virginia University
Morgantown, 26506

WISCONSIN

University of Wisconsin

Madison
Environmental Sciences Institute
Madison, 53706

Milwaukee
Center for Great Lakes Studies
Milwaukee, 53201

Green Bay
College of Environmental Sciences
Green Bay, 54305

Wisconsin State University
Eau Claire, 54701

Marquette University
1131 West Wisconsin Avenue
Milwaukee, 53233

GRADUATE PROGRAMS

The following institutions offer selected graduate programs, in environmental protection, supported by Federal Grants programs.

		Air Pollution	Industrial Hygiene	Radiation Protection	Solid Wastes	Water Supply and/or Water Pollution	Other[1]
Alabama	Tuskegee Institute					x	
	University of Alabama					x	
Alaska	University of Alaska						x
Arizona	University of Arizona					x	
Arkansas	University of Arkansas			x		x	
California	California Institute of Technology						x
	San Jose State College					x	
	Stanford University					x	
	University of California, Berkeley		x			x	x
	Davis					x	x
	Irvine						x
	Los Angeles			x			x
	Riverside	x					x
	University of Southern California	x					
Colorado	Colorado State University			x		x	
	University of Colorado					x	
Connecticut	University of Connecticut					x	
	Yale University	x		x			x

GRADUATE PROGRAMS (continued)

		Air Pollution	Industrial Hygiene	Radiation Protection	Solid Wastes	Water Supply and/or Water Pollution	Other[1]
D C	Georgetown University					x	x
	Howard University			x	x	x	x
Florida	University of Florida	x		x			x
	University of Miami						x
Georgia	Emory University			x	x	x	x
	Georgia Institute of Technology	x					x
	University of Georgia				x	x	x
Hawaii	University of Hawaii						x
Illinois	Illinois Institute of Technology			x		x	x
	Northwestern University					x	
	Southern Illinois University				x	x	
	University of Illinois	x				x	x
Indiana	Purdue University	x		x			x
	University of Indiana					x	x
	University of Notre Dame			x		x	
Iowa	Iowa State University					x	
	University of Iowa		x				x
Kansas	Kansas State University			x	x	x	
	University of Kansas					x	
Kentucky	University of Kentucky	x					x
Louisiana	Tulane University						

GRADUATE PROGRAMS (continued)

		Air Pollution	Industrial Hygiene	Radiation Protection	Solid Wastes	Water Supply and/or Water Pollution	Other[1]
	Louisiana Polytechnic Institute	...	...	...	...	x	...
Maine	University of Maine	...	...	...	...	x	...
Maryland	Johns Hopkins University	x	x	x	...	x	x
	University of Maryland	x	...	...	...	...	...
Massachusetts	Harvard University	x	x	x	...	x	x
	Massachusetts Institute of Technology	...	...	...	...	...	x
	Northeastern University	...	...	...	...	x	x
	Tufts University	...	...	...	...	x	x
	University of Massachusetts	x	...	...	...	x	x
Michigan	Michigan State University	...	...	...	...	x	x
	University of Michigan	x	x	x	x	x	x
	Wayne State University	...	x	...	...	x	x
Minnesota	University of Minnesota	x	...	x	...	x	x
Mississippi	Mississippi State University	...	...	...	...	x	...
Missouri	University of Missouri	...	...	...	...	x	x
	Washington University	...	...	...	...	...	x
Montana	Montana State University	...	...	...	...	x	...
Nebraska	University of Nebraska	...	...	...	...	x	...
New Jersey	Rutgers, The State University	x	...	x	...	x	x
New Mexico	New Mexico State University	...	...	...	...	x	x
New York	Adelphi University	...	...	...	...	x	...

GRADUATE PROGRAMS (continued)

		Air Pollution	Industrial Hygiene	Radiation Protection	Solid Wastes	Water Supply and/or Water Pollution	Other[1]
	Columbia University	...	...	x	...	...	x
	Cooper Union	x	...	...	...	...	...
	Cornell University	...	...	...	...	x	x
	Manhattan College	...	...	...	...	x	...
	New York University	x	...	x	...	x	x
	Rensselaer Polytechnic Institute	...	...	x	x	...	...
	Union University	...	...	...	...	...	x
North Carolina	Duke University	...	...	...	...	...	x
	North Carolina State University	...	...	...	...	x	x
	University of North Carolina	x	x	...	...	x	x
North Dakota	North Dakota State University	...	...	x	...	...	x
Ohio	Ohio State University	...	x	...	...	x	x
	University of Cincinnati	x	x	x	...	x	x
	University of Toledo	...	...	...	...	x	...
Oklahoma	Oklahoma State University	...	...	...	...	x	...
	University of Oklahoma	...	x	x	...	x	x
Oregon	Oregon State University	x	...	x	...	x	x
Pennsylvania	Drexel Institute of Technology	x	...	...	x	x	x
	Pennsylvania State University	x	...	...	...	x	x
	Temple University	x	...	x	...	...	...

GRADUATE PROGRAMS (continued)

		Air Pollution	Industrial Hygiene	Radiation Protection	Solid Wastes	Water Supply and/or Water Pollution	Other[1]
	Thomas Jefferson University	...	...	...	...	...	x
	University of Pennsylvania	...	...	x	...	...	...
	University of Pittsburgh	x	...	x	...	x	x
Rhode Island	University of Rhode Island	...	...	...	...	x	x
South Carolina	Clemson University	...	...	...	...	x	x
South Dakota	South Dakota State University	...	...	...	...	x	x
Tennessee	University of Tennessee	...	...	x	...	...	...
	Vanderbilt University	x	...	...	...	x	x
Texas	North Texas State University	...	...	...	...	x	...
	Rice University	...	...	...	...	x	x
	Texas A&M University	...	...	x	...	x	...
	University of Houston	...	...	...	x	...	...
	University of Texas	x	...	x	x	x	x
Utah	University of Utah	x	...	...	...	x	...
	Utah State University	...	...	...	...	x	...
Virginia	Virginia Polytechnic Institute	...	...	...	...	x	x
Washington	University of Washington	x	...	...	...	x	x
	Washington State University	x	...	x	...	x	...
West Virginia	West Virginia University	x	...	...	x	x	x
Wisconsin	Marquette University	...	...	...	...	x	...
	University of Wisconsin	x	...	...	...	x	...
Puerto Rico	University of Puerto Rico	...	...	...	...	...	x

[1]Includes one or more of the following, as illustrations: Toxicology, injury control, physiology, systems engineering, environmental biology, etc.